## In the Claims:

Please amend the claims to read as follows:

1. (Currently Amended) A purified or highly pure An isolated immunoglobulin having the same specificity as 4G10 monoclonal antibody comprising two light chain components and two heavy chain components wherein each of said heavy chain components contains an amino acid sequence having at least 98% identity to SEQ ID NO: 4 and each of said light chain components contains an amino acid sequence having at least 98% identity to SEQ ID NO: 5 and wherein said immunoglobulin is phosphotyrosine-specific.

- 2. (Currently Amended) The purified or highly pure isolated immunoglobulin of claim 1 comprising two light chain components and two heavy chain components wherein said heavy chain components exhibit a single band on gel electrophoresis.
- 3. (Currently Amended) The purified or highly pure isolated immunoglobulin of claim 1 wherein said immunoglobulin further comprises a histidine tag region.
- 4. (Currently Amended) The purified or highly pure isolated immunoglobulin of claim 3 comprising two light chain components and two heavy chain components wherein said heavy chain components exhibit a single band on gel electrophoresis.
- 5. (Currently Amended) The purified or highly pure isolated immunoglobulin of claim 4 claim 3 wherein said histidine tag is part of the a heavy chain component of said antibody.
- 6. (Currently Amended) The purified or highly pure isolated immunoglobulin of claim 1 further comprising a heavy chain component whose wherein the amino acid sequence of each of said heavy chain components is substantially the same as the

sequence of SEQ ID NO: 4 and a light chain component whose amino acid sequence is substantially the same as the sequence of SEQ ID NO: 5.

7. (Currently Amended) The purified or highly pure isolated immunoglobulin of claim 1 further comprising a wherein the amino acid sequence of each of said light chain components component whose amino acid sequence is the sequence of SEQ ID NO: 5 and whose heavy chain component is the sequence of SEQ ID NO: 4.

8. (Currently Amended) The purified or highly pure isolated immunoglobulin of claim 1 2 further comprising a wherein the amino acid sequence of each of said heavy chain components component whose amino acid sequence is substantially the same as is the sequence of SEQ ID NO: 4 6 and a wherein the amino acid sequence of each of said light chain components component whose amino acid sequence is the sequence of SEQ ID NO: 5.

- 9. (Withdrawn) An isolated recombinant polynucleotide encoding a polypeptide of claims 6, 7, and 8.
- 10. (Withdrawn) The isolated recombinant polynucleotide of claim 9 wherein said polynucleotide is a cDNA.
  - 11. (Withdrawn) The complement of claim 9 or 10.
  - 12. (Withdrawn) A vector comprising a polynucleotide of claim 9, 10, and 11.
- 13. (Withdrawn) A recombinant cell comprising the vector of claim 12 wherein said cell expresses the polypeptide encoded by the polynucleotide in said vector.
- 14. (Withdrawn) The recombinant cell of claim 13 wherein said cell also secretes an immunoglobulin.

15. (Withdrawn) The recombinant cell of claim 14 wherein the expressed

polypeptide is an antibody specific for an antigen.

16. (Withdrawn) The recombinant cell of claim 15 wherein said antibodies

demonstrate positive reactivity with phosphotyrosine-containing proteins from human

cells.

17. (Withdrawn) An immunosorbent material comprising the monoclonal

antibodies of claim 2 or claim 4 and a microporous polymeric substrate.

18. (Withdrawn) The immunosorbent material of claim 17 wherein the substrate

is a plurality of beads wherein said beads are no larger than about 100 microns in

diameter.

19. (Withdrawn) The immunosorbent material of claim 17 wherein the substrate

is a plurality of beads wherein said beads are no larger than about 10 microns in

diameter.

20. (Withdrawn) The immunosorbent material of claim 17 wherein the substrate

is a plurality of beads wherein said beads are about 5 microns in diameter.

21. (Withdrawn) The immunosorbent material of claim 18 wherein the substrate

is polymerized agarose.

22. (Withdrawn) The immunosorbent material of claim 17 wherein the substrate

comprises a metal ligand capable of binding to the histidine-tagged portion of a protein.

23. (Withdrawn) The immunosorbent material of claim 22 further comprising a

chemical linkage between said metal ligand and the antibodies of claim 17.

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24. (Withdrawn) A method of detecting the presence of phosphotryosine-containing proteins in a sample comprising the steps of contacting the sample with an antibody of claim 1 or 2 and testing for reactivity wherein a positive reaction demonstrates the presence of a phosphotyrosine-containing protein or polypeptide in said sample.

25. (Withdrawn) The method of claim 24 wherein the step of testing the sample further comprises contacting the sample with an immunosorbent material which includes the monoclonal antibodies.

26. (Withdrawn) The method of claim 24 wherein the step of testing further comprises testing by a method selected from the group consisting of immunofluorescence, radioimmunoassay, immunoprecipitation, complement fixation, competitive reaction, Western blotting, immunohistochemistry, flow cytometry, and enzyme-linked immunosorbent assay (ELISA).

- 27. (Withdrawn) A method of producing a purified or highly pure immunoglobulin comprising the steps of:
- (a) inserting a histidine tag sequence at the C-terminal end of the heavy chain component of an immunoglobulin to be purified to produce a histidine tagged immunoglobulin;
- (b) purifying said histidine tagged heavy chain polypeptide by immobilized metal affinity chromatography under neutral conditions and specifically preventing exposure of the immunoglobulin to acidic pH;
  - (c) recovering the purified histidine tagged highly purified immunoglobulin.
- 28. (Withdrawn) The method of claim 27 wherein said histidine tagged heavy chain component is produced by expression of a polynucleotide encoding said histidine tagged heavy chain component.

29. (Withdrawn) The method of claim 27 wherein said pH in step (b) is not permitted to go below a pH of 5.0.

30. (Withdrawn) The method of claim 27 wherein said pH in step (b) is not permitted to go below a pH of 6.0.

31. (Withdrawn) The method of claim 27 wherein the antibody being purified is the antibody of claim 4.

32. (Withdrawn) The immunoglobulin produced by the method of claim 27, 28, 29 or 30.

Please add the following new claims:

33. (New) The isolated immunoglobulin of claim 1 wherein said immunoglobulin lacks reactivity with phosphoserine or phosphothreonine.

34. (New) The isolated immunoglobulin of claim 8 wherein said immunoglobulin further comprises a histidine tag.

- 35. (New) The isolated immunoglobulin of claim 34 wherein said histidine tag is attached to a heavy chain component of said immunoglobulin.
- 36. (New) The isolated immunoglobulin of claim 5 wherein said heavy chain component containing said histidine tag contains the amino acid sequence of SEQ ID NO: 6.